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> M MINGLE 7/8" Shaft Vertical Pressure Washer Pump Instruction Manual (Model PW89-11)

M MINGLE PW89-11

M MINGLE 7/8" Shaft Vertical Pressure Washer Pump Instruction Manual

Model: PW89-11

1. PRODUCT INTRODUCTION

This manual provides essential information for the safe and efficient use of your M MINGLE 7/8" Shaft Vertical Pressure Washer Pump. This pump is designed to replace existing pumps on various pressure washer brands, offering a maximum pressure of 3000 PSI and a flow rate of 2.4 GPM. It features a double-seal system for leak prevention and a maintenance-free crankcase.



Figure 1: Key components of the M MINGLE Vertical Pressure Washer Pump.

The pump includes a 3/4" NH inlet for garden hoses, a thermal release valve, an unloader, and an M22x1.5 pressure washer hose outlet. It also features a dedicated port for soap or chemical injection.

2. COMPATIBILITY

This vertical pressure washer pump is compatible with many popular brands including RYOBI, Honda, Briggs and Stratton, Craftsman, Subaru, PowerStroke, Simpson, and Homelite. It is designed for most Rear Outlet 180-196cc engines at 6.5-7hp.

Specific compatible models include:

- **Homelite:** 308653052, 308653006, 308653093, 308653078
- **Ryobi:** RY802900, RY802800, RY802723, RY8C2700
- **Husky:** HU80709, HU80911, HU80709A, HU80911A
- **Craftsman:** 580.752960, 580.752052, 580.752191, 580.752880
- **Honda:** GCV160, GCV190

ONLY FIT FOR $7/8"$ SHAFT VERTICAL ENGINE

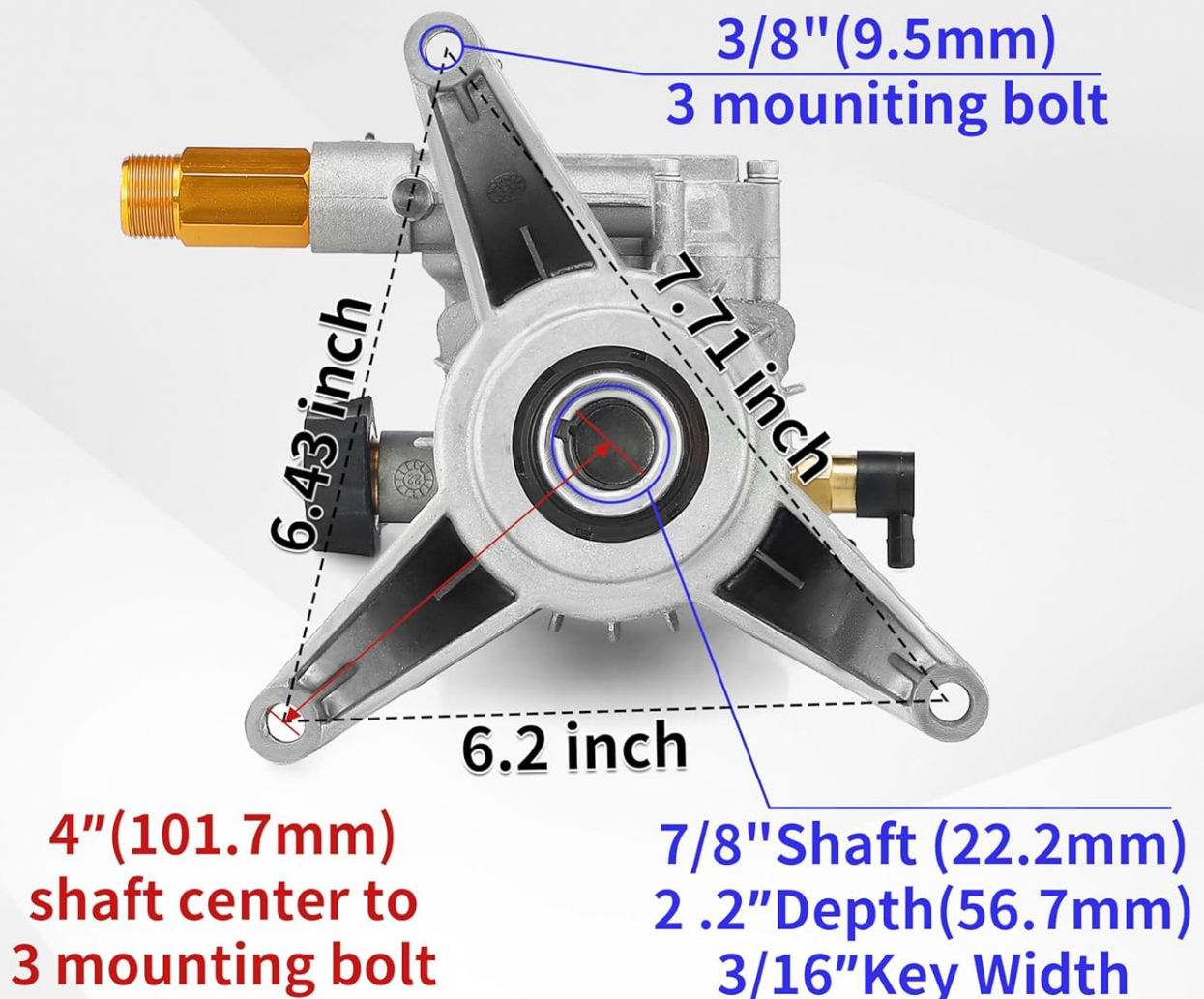


Figure 2: Dimensional specifications for compatibility. Ensure your engine shaft is $7/8"$ (22.2mm) with a 2.2" (56.7mm) depth and $3/16"$ key width.

REAR SIDE ✓



FRONT SIDE ✗



Installation Guide

This pump can also be used on front inlet/outlet engines, but you will need to rotate it 180 degrees and drill holes in the engine frame to install it properly. If installation is difficult, choose a front inlet/outlet pump.

Figure 3: This pump is primarily designed for rear inlet/outlet engines. For front inlet/outlet engines, rotation and drilling may be required.

3. SETUP AND INSTALLATION

Follow these steps to install your new M MINGLE Vertical Pressure Washer Pump. It is recommended to have a second person assist during installation.

1. **Prepare Your Power Washer:** Ensure the power washer engine is off and cooled down. Disconnect any existing pump or hoses.
2. **Prepare the New Pump:** Gather the new pump, bolts, washers, and keys provided in the package.
3. **Insert Center Shaft Key:** Carefully insert the center shaft key into the engine's shaft.
4. **Align and Mount the Pump:** Align the mounting holes on the new pump with the corresponding key on the power washer frame. Slide the pump onto the engine shaft.
5. **Secure the Bolts:** Insert the provided bolts through the mounting holes and secure them with washers and

nuts. Tighten the bolts securely using a wrench or screwdriver.

6. **Connect Inlet and Outlet:** Attach the 3/4" Garden Hose Quick Connect Fitting to the pump's inlet and the M22-14mm Pressure Washer Adapter to the pump's outlet. Connect your garden hose and pressure washer hose.
7. **Connect Chemical Hose:** If using, connect the pure chemical hose to the soap/chemical injection port.

Your browser does not support the video tag.

Video 1: Detailed guide on how to install a vertical pressure washer pump.

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Video 2: Visual instructions for pump installation.



Figure 4: Quick-connect fittings for easy hose attachment.

4. OPERATING INSTRUCTIONS

Once the pump is securely installed and all connections are made, you can begin operating your pressure washer.

- **Pressure Output:** The pump provides a maximum pressure of 3000 PSI and a maximum flow rate of 2.4 GPM. Optimal performance is typically achieved within the range of 2400-2800 PSI.
- **Temperature:** The maximum water temperature for operation is 140°F.
- **Unloader Valve:** The adjustable unloader allows you to increase or reduce the pressure to match the engine's requirements.
- **Chemical Injection:** Use the dedicated chemical injection port for applying detergents or cleaning solutions.



Accessories include



Keys ×2



**M22-14mm
Adapters**



**Hardened
Bolt & Washer**

<i>Max Pressure (psi/bar)</i>	3000/210
<i>Max Flow Rate</i>	2.4 GPM
<i>Pump Type</i>	Axial
<i>Engine Type</i>	7/8" Vertical
<i>Inlet Connector</i>	3/4" NH Garden Hose
<i>Outlet Connector</i>	M22x1.5-14mm
<i>Body Material</i>	Aluminum Alloy
<i>Unit Weight</i>	6 LB

Figure 5: Key operational specifications of the pump.

5. MAINTENANCE

The M MINGLE pressure washer pump is designed for hassle-free maintenance.

- **Pre-filled Oil:** The pump comes pre-filled with oil, eliminating the need for initial oil filling.

- **Double-Seal System:** A high-performance double-seal system prevents oil and water leaks, contributing to extended service life.
- **Maintenance-Free Crankcase:** The crankcase is designed to be maintenance-free, meaning no regular oil changes are required for the pump itself.
- **Durability:** Upgraded technical surfacing piston and bearing ensure durability and reliable performance for up to 150 hours of use.

6. TROUBLESHOOTING

For common issues, please refer to the following:

- **Low Pressure:** Check for kinks in the hose, ensure the water supply is adequate, and verify that the unloader valve is correctly adjusted.
- **Leaks:** Ensure all connections are tight. The pump features a double-seal system to prevent leaks; if persistent leaks occur, inspect seals and connections.
- **Pump Not Engaging:** Verify the engine is running correctly and the pump shaft is properly seated and secured.
- **Overheating:** The thermal release valve is designed to protect the pump from overheating. If the pump frequently overheats, ensure adequate water flow and proper ventilation.

If you encounter issues not covered here, please contact M MINGLE customer support for assistance.

7. SPECIFICATIONS

Feature	Specification
Brand	M MINGLE
Model Number	PW89-11
Color	Black
Material	Aluminum
Style	Rear Inlet Vertical
Product Dimensions (L x W x H)	8.27"L x 9.84"W x 7.87"H
Power Source	Hydraulic Powered
Maximum Flow Rate	2.4 Gallons Per Minute (GPM)
Maximum Pressure	3000 PSI
Pump Type	Axial
Engine Type Compatibility	7/8" Vertical Shaft
Inlet Connector	3/4" NH Garden Hose
Outlet Connector	M22x1.5-14mm
Unit Weight	Approximately 6 LB

8. WARRANTY AND SUPPORT

For warranty information or technical support, please contact M MINGLE customer service. Keep your purchase receipt for any warranty claims.